CRA

CONESTOGA-ROVERS & ASSOCIATES

8615 W. Bryn Mawr Avenue Chicago, Illinois 60631

(773) 380-9933

Fax: (773) 380-6421

August 29, 1997

Reference No. 6711

Ms. Mary Tierney United States Environmental Protection Agency Region V - (SR-6J) 77 West Jackson Boulevard Chicago, Illinois 60604-3590

Dear Ms. Tierney:

Re: Work Plan - Supplemental LNAPL Investigation - Lenz Oil

This letter presents a work plan to conduct a Supplemental LNAPL Investigation at Lenz Oil which follows the scope of work requested by USEPA and IEPA.

SCOPE OF WORK

- Install up to six piezometers at locations shown on the attached figure to delineate the extent of LNAPL. Installation protocols will follow ERM's procedures*. Piezometers will consist of flush mounted two inch diameter, stainless steel well screens and riser pipe (e.g. PZ 23 attached) installed with a hollow stem auger and water rotary (if necessary) drilling methods. The attached figure shows hydrograph for MW5S and MW6S. Table 1 presents proposed screen intervals. If any borehole shows evidence of LNAPL, the piezometer will be moved to the south or west in any effort to find the limit of LNAPL.
- Drill up to 10 shallow boreholes along existing petroleum pipelines to investigate whether any leakage has occurred. The boreholes will be drilled to bedrock (approximately 7 feet below ground surface).
- Conduct bail down tests at three piezometers per ERM's Field Sampling Plan*.
- Survey new piezometer/borehole locations.
- Conduct four rounds of water level and LNAPL measurements.

^{*} Note: Lenz Oil Site, Field Sampling Plan, Addendum A, Revision 4, June 27, 1994

August 29, 1997

Reference No. 6711

- 2 -

 Sample groundwater MW3S, MW6S and three piezometers located downgradient (south) of the LNAPL and analyze for volatile organic compounds (VOCs). This work is intended to evaluate the potential presence of a dissolved VOC plume downgradient of the LNAPL. VOC sampling will only be conducted at wells/piezometers without LNAPL.

ACCESS

Access is being arranged with Mr. Tameling who owns the property south of Jean's Road and Illinois Department of Transportation (IDOT). Amoco, West Shore and Badger have been notified and will mark the pipelines. Access is not required from the pipeline companies.

CUTTINGS/WATER MANAGEMENT

All drill cuttings and water will be contained in drums and will be stored in the drum storage area (including the drum of water from abandonment of the William's wells). The drill cuttings and water will be managed along with the final selected remedy.

REPORTING AND SCHEDULE

Drilling is scheduled to begin September 2, 1997 and will likely take 5 to 10 working days. After piezometer installation, the VOC sampling will be conducted and two rounds of water/LNAPL measurements will be taken.

A Feasibility Study (FS) Addendum will be prepared to incorporate the results of the Supplemental LNAPL Investigation. The FS Addendum will include updated cost estimates for FS alternatives taking into account changed field conditions. At this time we believe the FS Addendum Report can be prepared for submittal to USEPA within four weeks after VOC groundwater sampling.

CONESTOGA-ROVERS & ASSOCIATES

August 29, 1997

Reference No. 6711

-3-

Should you have any questions, please do not hesitate to call.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Ron Frehner

RF/mo/2 Encl.

c.c.: Alan Bielawski, Sidley & Austin

John Griggs, ComED

Susan Smith, Owens Illinois

Jerry Willman, IEPA Walt Pochron, CRA

TABLE 1
PROPOSED PIEZOMETER SCREEN INTERVALS

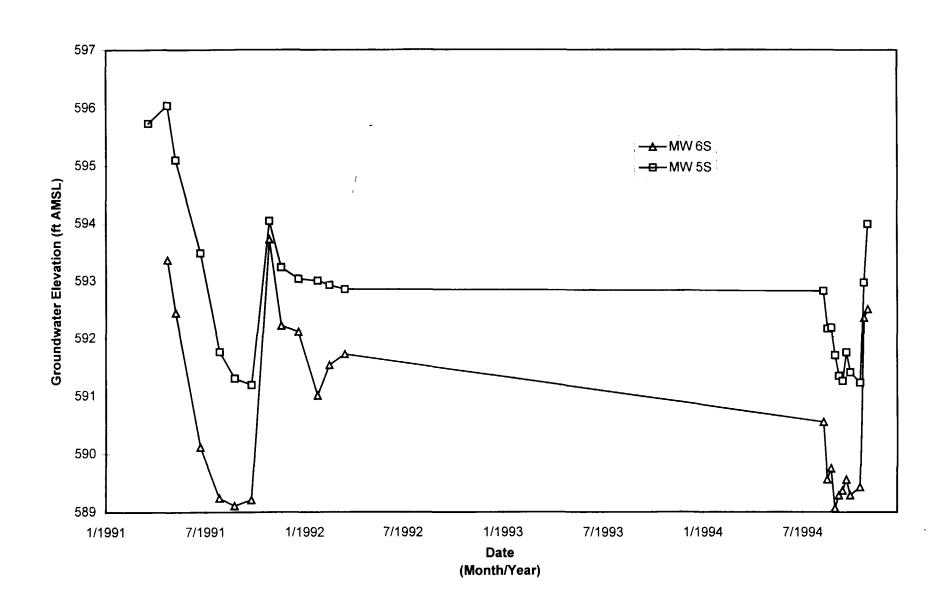
A. Background Information

Existing Piezometers	Ground Elevation (ft AMSL)	Depth (ft BGS)	Range in Groundwater Elevation (ft AMSL) (1991 - 1997)
PZ24	595.8	3.5 - 6.6	589.21 - 592.29
PZ25	595.7	3.1 - 6.4	589.27 - 592.61
PZ26	596	3.1 - 6.5	589.52 - 592.91
MW7S	608	14.9 - 19.0	589.05 <i>-</i> 593.11
MW6S	593.6	0.1 - 4.5	589.07 - 593.72
MW3S	594.9	1.6 - 6.7	588.16 - 593.30
MW5S	600.7	4.7 - 9.5	591.23 - 596.04

B. Proposed Screen Intervals

Estimated				
	Ground Elevation	Screen Depth		
Piezometer	(ft AMSL)	(ft BGS)	Proposed Screen Interval (ft AMSL)	
PZ27	594	2' - 12'	580 - 592	
PZ28	594	2' - 12'	580 - 592	
PZ29	594	2' - 12'	580 - 592	
PZ30	594	2' - 12'	580 - 592	
PZ31	608	12' - 22'	586 - 596	
PZ32	601	3' - 13'	588 - 598	

Figure 2
Hydrograph For Monitoring Wells MW-5S and MW-6S
Lenz Oil Site
Lemont, Illinois





ERM-North Central, Inc.

Environmental Resources Management

WELL CONSTRU	JCTION LOG PROJECT/TA	SK PROJECT NUMBER WELL NUMBER VELL NUMBER P-23	Ř
	WELL HEAD NOTES: Flush Mount Steel Pro Concrete 8-inch Diameter Orille Bentonite Chips 2-inch Diameter #304	Associated Soil Boring City Lemont County and State DuPage, Illinois Ground Surface Elevation 601.186 AMSL Measuring Point Elevation 600.87	ER
	2-inch Diameter #304 Sand Filter Pack	Well Purpose	
20.5		Prepared By <u>Daniel W. Petersen</u> Location <u>ERM-North Central</u>	

TABLE 1
PROPOSED PIEZOMETER SCREEN INTERVALS

A. Background Information

Existing Piezometers	Ground Elevation (ft AMSL)	Depth (ft BGS)	Range in Groundwater Elevation (ft AMSL) (1991 - 1997)
PZ24	595.8	3.5 - 6.6	589.21 - 592.29
PZ25	595.7	3.1 - 6.4	589.27 - 592.61
PZ26	596	3.1 - 6.5	589.52 - 592.91
MW7S	608	14.9 - 19.0	589.05 - 593.11
MW6S	593.6	0.1 - 4.5	589.07 - 593.72
MW3S	594.9	1.6 - 6.7	588.16 - 593.30
MW5S	600.7	4.7 - 9.5	591.23 - 596.04

B. Proposed Screen Intervals

		Estimated	
	Ground Elevation	Screen Depth	
Piezometer	(ft AMSL)	(ft BGS)	Proposed Screen Interval (ft AMSL)
PZ27	594	2' - 12'	580 - 592
PZ28	594	2' - 12'	580 - 592
PZ29	594	2' - 12'	580 - 592
PZ30	594	2' - 12'	580 - 592
PZ31	608	12' - 22'	586 - 596
PZ32	601	3' - 13'	588 - 598